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10/534975

JC20 Rec'd PCT/PTO 16 MAY 2005

Secure method for modifying data recorded in a memory card

ABSTRACT

Method for modifying the data in a card transaction system including a smart card and a reader capable of reading the card, the card including a non-volatile, erasable and rewritable memory comprising at least one location to record a data value relating to the transactions performed by the card. Each transaction results in the modification of the data value, the latter being a monotonic function in time. At each transaction, a data value writing operation performs the writing of the new data value (Y) in a first location (B) of two predefined locations in the memory forming a counter, the writing operation performing the erasing of the old data value recorded in the second location (A) such that, at the end of the correctly performed writing operation, the first location contains the new data value whilst the second location contains the value zero.

Figure 1